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ROPES GRAY

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FAX TRANSMISSION

DATE: December 7, 2004

PTO IDENTIFIER: Application Number 09/583066

Patent Number

Inventor: Wanker et al.

MESSAGE TO: Office of Initial Patent Examination

FAX NUMBER: (703) 746-9195

FROM: ROPES & GRAY LLP

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PAGES (Including Cover Sheet): 15

CONTENTS:

Request for Corrected Filing Receipt (1 page)
Copy of Incorrect Filing Receipt with changes noted thereon (3 pages)
Copy of page 1 of Specification originally filed on May 30, 2000 (1 page)
Copy of substitute Declaration for Patent Application (9 pages)
This Facsimile Cover Sheet (1 page)

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Signature:


(Mary Jane DiPalma)Docket No.: GPCG-P01-122
(PATENT)**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:

Wanker et al.

Application No.: 09/583066

Confirmation No.: 1672

Filed: May 30, 2000

Art Unit: 1631

For: IDENTIFICATION AND CHARACTERIZATION
OF INTERACTING MOLECULES BY
AUTOMATED INTERACTION MATING

Examiner: A. H. Marschel

REQUEST FOR CORRECTED FILING RECEIPTFiling Receipt Corrections
Office of Initial Patent Examination
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Applicant hereby requests that a corrected Filing Receipt be issued in the above-identified patent application. The official Filing Receipt received by Applicant, a copy of which is attached hereto, has the following errors:

In the Domestic Priority as claimed by applicant section:

Please insert --This application is a continuation-in-part of PCT/EP98/07657 11/27/98--;

In the Foreign Applications section:

Please insert -- Europe 97120879.8 11/27/97

Europe 97120867.3 11/27/97

Europe 97120880.6 11/27/97--.

Enclosed is a copy of page 1 of the specification originally submitted on May 30, 2000 to show the correct priority data. Also enclosed is a copy of a substitute Declaration newly executed by the inventors to reiterate the correct priority data.

Applicant additionally requests that all pertinent U.S. Patent and Trademark Office records relating to the subject application be changed to reflect this correction.

Applicant believes no fee is due with this request. However, if a fee is due, please charge our Deposit Account No. 18-1945, under Order No. GPCG-P01-122 from which the undersigned is authorized to draw.

Dated: December 7, 2004

Respectfully submitted,

By 

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| APPLICATION NUMBER | FILING DATE | GRP ART UNIT | FIL FEE REC'D | ATTY. DOCKET NO. | DRAWINGS | TOT CLAIMS | IND CLAIMS |
|--------------------|-------------|--------------|---------------|------------------|----------|------------|------------|
| 09/583,066 | 05/30/2000 | 1631 | 914 | GPCG-P01-122 | 29 | 66 | 5 |

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CONFIRMATION NO. 1672

CORRECTED FILING RECEIPT



OC00000006541938

Date Mailed: 09/11/2001

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

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Domestic Priority data as claimed by applicant This application is a CIP of PCT/EP98/07657
filed 11/27/98

Foreign Applications European Applications 97120879.8, filed 11/27/97
97120867.3, filed 11/27/97
If Required, Foreign Filing License Granted 08/04/2000 97120880.6, filed 11/27/97

Projected Publication Date: N/A

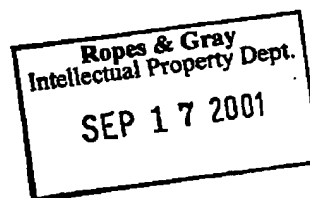
Non-Publication Request: No

Early Publication Request: No

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Title

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Any corrections that may need to be done to your Filing Receipt should be directed to:

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Washington, DC 20231

ATTY REF: MIV-122:01

Improved Method For The Identification And Characterization Of Interacting Molecules By Automated Interaction Mating

Reference to Related Applications

This application claims priority under 35 USC §120 to PCT application serial number PCT/EP98/07657 filed 27 November 1998, and to European Patent application serial numbers 97120879.8, 97120867.3 and 97120880.6, all of which were filed on 27 November 1997. The specifications of each of the above-referenced patent applications are incorporated by reference herein.

Background of the Invention

The present invention relates to an improved method for the identification and optionally the characterisation of interacting molecules designed to detect positive clones from the rather large numbers of false positive clones isolated by conventional two-hybrid systems. The method of the invention relies on a novel combination of selection steps used to detect clones that express interacting molecules from false positive clones. The present invention provides for high-throughput interaction screens for the reliable identification of interacting molecules, which in turn can lead to the identification of substances inhibiting said interactions. Such inhibitors can find their use in the formulation of a pharmaceutical composition. The present invention further relates to kits useful for carrying out the method of the invention.

Protein-protein interactions are essential for nearly all biological processes like replication, transcription, secretion, signal transduction and metabolism. Classical methods for identifying such interactions like co-immunoprecipitation or cross-linking are not available for all proteins or may not be sufficiently sensitive. Said methods further have the disadvantage that only by a great deal of energy, potentially interacting partners and corresponding nucleic acid fragments or sequences may be identified. Usually, this is effected by protein sequencing or production of antibodies, followed by the screening of an expression-library.

An important development for the convenient identification of protein-protein interactions was the yeast two-hybrid (2H) system presented by Fields and Song (1989). This